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(54) METHOD FOR ELECTROCHEMICALLY REACTING ORGANIC SUBSTRATE IN ELECTROLYTIC CELL

(57)Abstract:

PROBLEM TO BE SOLVED: To provide the electrolysis, in which a solid polymer electrolyte technology is applied and the current density can be maintained in a constant value for a relatively long period of time without increasing cell voltage.

SOLUTION: The electrochemical reaction is conducted in an electrolytic cell which has a solid electrolyte comprising one or more layers of ion exchange membranes superposed in the up-and-down direction and has a cathode and an anode which are brought into contact directly with the solid electrolyte, using an electrolytic solution, which is an organic solution substantially containing no electrically conductive salt, at the temp. of the boiling point of the electrolytic solution or a temp. lower by 0-5°C than the boiling point.

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